# Harpagan

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **81**
- SRM **3.6**
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.6 liter(s)
- Total mash volume 16.8 liter(s)

# **Steps**

- Temp **67 C**, Time **40 min** Temp **72 C**, Time **10 min**
- Temp 76 C, Time 5 min

## Mash step by step

- Heat up 12.6 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 40 min at 67C
- Keep mash 10 min at 72C
- Keep mash 5 min at 76C
- Sparge using 16.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4 kg <i>(95.2%)</i>	81 %	5
Grain	Weyermann - Carapils	0.2 kg <i>(4.8%)</i>	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Falconer's Flight	20 g	10 min	10.5 %
Boil	Falconer's Flight	60 g	55 min	10.5 %
Dry Hop	Falconer's Flight	140 g	3 day(s)	10.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

# **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	Glukoza	80 g	Bottling	